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graph TD
    50([JOB MESSAGE HANDLER]) --> 52[INITIALIZATION]
    52 --> 54[WAIT FOR MESSAGE]
    54 --> 56{SHUTDOWN MESSAGE?}
    56 -- YES --> 78{SHUTDOWN MESSAGE SENT?}
    56 -- NO --> 58{ASYNCHRONOUS ERROR MESSAGE?}
    78 -- YES --> 80[CALL CLUSTERING RESOURCE SERVICES TO SIGNAL DISTRESS CONDITION]
    78 -- NO --> 80
    58 -- YES --> 80
    58 -- NO --> 60{END JOB?}
    60 -- YES --> 72[CLEAN UP]
    60 -- NO --> 62[HANDLE MESSAGE]
    72 --> 74{SHUTDOWN MESSAGE SENT?}
    74 -- YES --> 76([END JOB])
    74 -- NO --> 82[UNREGISTER WITH CLUSTER (MEMBER LEAVE MCM)]
    82 --> 76
    62 --> 64{SHUTDOWN ERROR DETECTED?}
    64 -- YES --> 66{SHUTDOWN MESSAGE SENT?}
    66 -- YES --> 80
    66 -- NO --> 68[SEND SHUTDOWN MESSAGE TO CLUSTER CONTROL (CTL) JOB]
    68 --> 70[MARK SHUTDOWN MESSAGE SENT]
    70 --> 72
    76 --> 54
    
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